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Harold Smith Osborne: "An Investigation of the Potential Stress in Dielectrics."

Richard Chace Tolman: "The Electromotive Force produced in Solutions by Centrifugal Action."

BRYN MAWR COLLEGE

Alice Middleton Boring: "A Study of the Spermatogenesis of Twenty-two Species of the Membracidae, Jassidae, Cercopidae and Fulgoridae."

Grace Potter Reynolds: "The Reaction between Organic Magnesium Compounds and Unsaturated Compounds containing Alkoxy Groups."

UNIVERSITY OF IOWA

Albert Kuntz: "The Development of the Sympathetic Nervous System of the Mammalia."

Lee Paul Sieg: "Peculiarities in the Elastic Properties of Certain Wires."

UNIVERSITY OF MISSOURI

Charles Kenworthy Francis: "Phosphorus in Beef Animals."

Louis Lazarus Silverman: "On various Definitions of the Sum of a Divergent Series."

NEW YORK UNIVERSITY

Patrick J. O'Donnell: "The Role of Attention and Habit in the Determination of Social Mind and Corporate Life."

John Paul Simmons: "Isomerisms in the Cobalt Ammines."

PRINCETON UNIVERSITY

Howard Hawks Mitchell: "The Subgroups of the Linear Group $LF(3, p^n)$."

Ulysses Grant Mitchell: "Geometry and Collineation Groups of the Plane $PG(2, 2^n)$."

BROWN UNIVERSITY

Henry Carroll Tracy: "The Morphology of the Swimbladder in Teleosts."

UNIVERSITY OF CINCINNATI

Elliott Smith: "Personal Equation and its Variation."

UNIVERSITY OF MICHIGAN

Harvey Lincoln Curtis: "Mica Condensers as Standards of Capacity."

UNIVERSITY OF MINNESOTA

Hal. Downey: "The Lymphatic Tissue of the Kidney of *Polyodon spathula*."

UNIVERSITY OF NEBRASKA

Franklin Davis Barker: "The Trematode Genus *Phisthorcis* Blanchard."

UNIVERSITY OF PITTSBURGH

Robert Horace Baker: "The Spectroscopic Binary, Beta Aurigæ."

STANFORD UNIVERSITY

Solon Shedd: "The Clays and Clay Industry of Washington."

SYRACUSE UNIVERSITY

Floyd Fiske Decker: "On the Order of a Restricted System of Equations."

SCIENTIFIC NOTES AND NEWS

On the occasion of the celebration of the seventieth birthday of Dr. Hermann Wagner, professor of geography at Göttingen, his bust was presented to the Hall of Fame of the university by his students and friends.

DR. ALBRECHT PENCK, professor of geography at Berlin, has celebrated the twenty-fifth anniversary of his professorship.

DR. JULIUS HANN, professor of cosmical physics at Vienna, has retired from the active duties of his chair.

DR. OSKAR VON HERTWIG, professor of zoology at Munich, has been elected rector of the university for the next academic year.

THE Paris Academy of Sciences has awarded the "Fondation Leconte," a prize of 2,500 francs, to Mr. A. R. Hinks, of Cambridge Observatory, for his astronomical researches.

THE *Observatory* says that English men of science will rejoice in the election of two more Englishmen—Sir William Ramsay and Sir E. Ray Lankester—into the select body of twelve foreign associates of the Paris Academy of Sciences. There were only eight foreign associates of the academy until December of last year, when the number was increased to twelve. Of the eight associates on the list last year, two were Americans, namely, Newcomb and Agassiz; but it appears that no Americans have been found to fill the places left vacant by their deaths. There is at present one vacancy to be filled, the eleven associ-

ates being: Lister, Suess, Hooker, the Prince of Monaco, Rayleigh, von Baeyer, van der Waals, Dedekind, Hittorf, Ramsay and Lankester.

EDWARD W. BERRY, associate in paleobotany at the Johns Hopkins University, has recently been appointed a geologist on the U. S. Geological Survey and will spend the fall in paleobotanical collecting in the south. Special attention will be devoted to the Tertiary with a view to securing data for correlation. The area covered will extend from Florida to Arkansas.

DR. PEDRO A. DE FIGANIERE, late house-surgeon at the Tuberculosis Hospital, District of Columbia, and Dr. Norman D. Morgan, of San Francisco, have been appointed to positions in the Fur-Seal Service, U. S. Bureau of Fisheries, as resident physicians at the Pribilof Islands, the former on St. George and the latter on St. Paul. They sailed from San Francisco, August 6, on the *Homer* for the Pribilofs.

MR. HARRY JOHN CHRISTOFFERS, class of 1910, University of Wisconsin, has been appointed to a position as scientific assistant in the U. S. Bureau of Fisheries at Washington.

DR. J. E. W. WALLIN, of the New Jersey Training School, has accepted the position of director of the newly-established laboratory of clinical psychology in the New Jersey village for epileptics at Skillman.

MR. R. S. MACKINTOSH, formerly professor of horticulture in the Alabama Polytechnic Institute and state horticulturist of Alabama, is now with the department of horticulture of the Pennsylvania State College in charge of peach investigations. Preliminary surveys are to be made of the several peach growing sections to determine what special lines of experimental work shall be undertaken.

DR. BARTON WARREN EVERMANN, in charge of the scientific work of the U. S. Bureau of Fisheries, has returned to Washington from a tour of inspection of the biological and fish-cultural stations of the Bureau at Fairport, Iowa, Homer, Minn., and La Crosse, Wis. He also gave an address at Terre Haute, Ind., at

the celebration of the twenty-fifth anniversary of the presidency of Dr. William Wood Parsons, of the Indiana State Normal School.

MR. H. B. MAUFE, of the Geological Survey of Great Britain, has been appointed director of the Geological Survey of Southern Rhodesia, lately instituted by the Chartered Company.

DURING the past spring Professor Ellsworth Huntington, of Yale University, has been co-operating with the Desert Botanical Laboratory of the Carnegie Institution in a study of American deserts as compared with those of Asia.

FOREIGN journals state that M. Louis Gentil, professor of geology at the Sorbonne, who accompanied the expedition which recently explored the Atlas region under the auspices of the Comité du Maroc, has been entrusted by the French minister of public instruction with a mission to the Muluya Valley, where he will complete his scientific researches in the Algero-Moroccan frontier district.

WE learn from the *Observatory* that the English astronomers who will attend the meeting of the International Union for Co-operation in Solar Research on Mt. Wilson at the end of the present month, are as follows: Professor Schuster, member of the executive committee; Professor Newall, chairman of committee on sun-spot spectra and member of committee on the determination of the solar rotation by means of displacements of lines; Professor Turner, director of computing bureau, member of eclipse committee; Professor Fowler, secretary of committee on sun-spot spectra; Rev. A. L. Cortie, member of committee on sun-spot spectra; Professor Dyson and Major E. H. Hills, members of eclipse committee.

AT the University of Illinois, Professor G. A. Miller gave five lectures on the history of the development of mathematics before the students of the summer session.

NEWS has just been received that Dr. Charles Hugh Shaw, assistant professor of botany in the University of Pennsylvania, was

drowned on July 30, in Kimbasket Lake, British Columbia. Dr. Shaw for a number of years has conducted botanical excursions into unknown regions of the Selkirk and Canadian Rocky Mountains, and this year had attempted in company with half a dozen students and local guides to go around the Big Bend of the Columbia River. Mrs. Shaw was awaiting the party at Revelstoke, B. C.

It is reported that the government of the republic of Ecuador has proposed to present to France the observatory at Quito, together with its apparatus and dependencies, and that the Academy of Sciences has decided provisionally to accept the gift.

IN connection with the German Museum at Munich, there will be erected a small observatory with a dome.

THE *Electrical World* states that Professor J. A. Fleming, at the University College, and Professor E. Wilson, at King's College, London, have established wireless telegraph stations for communication between these institutions. Instruction is given at each place in the principles and practise of radio-telegraphy.

At a meeting of the trustees of the A. K. Traveling Fellowships, Mr. Sidney Ball, fellow of St. John's College, Oxford, and Professor I. Gollancz, professor of English at King's College, London, were appointed as the first fellows of the English foundation. These fellowships, each of the value of £660, were recently founded by Mr. Albert Kahn, of Paris, to enable the fellows to travel round the world.

THE biological station of the U. S. Bureau of Fisheries at Fairport, Iowa, is now sufficiently equipped for carrying on investigations and for actual propagation work in mussel culture. The permanent scientific personnel of the station consists of the following: Dr. Robert E. Coker, director; Mr. H. Walton Clark and Mr. Thaddeus Surber, scientific assistants, and Mr. J. F. Boepple, shell expert.

THE *Journal of Geography*, which heretofore has been edited by Professor R. E. Dodge,

and published by the Teachers College of New York City, will in the future be edited by Ray Hughes Whitbeck, of the University of Wisconsin, and will be published in Madison.

PROFESSOR T. D. A. COCKERELL, of the University of Colorado, in Boulder, has recently published as paper No. 1745 in the "Proceedings of the U. S. National Museum" a paper entitled "The North American Bees of the Genus *Nomia*." It appears that in the collections of the National Museum there were a number of undescribed species of the genus *Nomia* to which the late Dr. Ashmead had given manuscript names, but which he had never described. These Professor Cockerell has examined and in the present paper describes for the first time five species, the types of which are in the national collections.

ANNOUNCEMENT is made of the forthcoming publication of Dr. Johann David Schoepf's "Reise durch einige der mittlern und südlichen nordamerikanischen vereinigten Staaten, etc., 1783-1784." Erlangen. 1788. 2 volumes. Dr. Schoepf was a surgeon in the German division of the British army, who immediately after the establishment of peace set out from New York and traveled through the coast states as far as St. Augustine. He visited also the Bahama Islands. He was a university man [Erlangen, 1776], interested especially in geology and natural history. His *Travels* give perhaps the best account of this country (from the standpoint of a foreigner), as it was during the Confederation period. There is naturally much geological comment in these volumes, which may be compared with Lyell's, sixty years later. Schoepf gave particular attention to mining operations and examined many mines in New Jersey and Pennsylvania, the two great mining regions of that day. He went as far west as Pittsburgh. The translation is the work of Alfred J. Morrison, editor of the "Travels of Four Years and a Half, in the United States, 1798-1802," by John Davis.

THE condition of various crops in the United States on August 1—100 representing for each crop, its average condition on August 1 of recent years (10-year average for most

crops)—was as follows: Peaches, 128.6; winter wheat (yield per acre), 110.5; clover (production compared with average production), 105.5; rye (yield per acre), 101.8; hops, 100.1; peanuts, 99.8; oats, 98.7; sweet potatoes, 98.5; lemons, 98.3; rice, 98.2; tomatoes, 97.5; sugar cane, 97.0; broom corn, 96.7; corn, 96.6; buckwheat, 96.5; onions, 96.1; cabbages, 95.9; beans, 95.8; oranges, 95.6; cantaloupes, 95.2; hay, 95.2; cotton, 95.1; tobacco, 95.0; watermelons, 94.0; sorghum, 93.6; sugar beets, 93.6; hemp, 91.0; alfalfa, 90.1; grapes, 89.5; potatoes, 88.1; apples, 86.3; barley, 82.1; pasture, 81.8; kafir corn, 81.6; millet, 80.3; raspberries, 78.0; blackberries, 76.6; spring wheat, 74.5; flax, 58.5.

It is stated in *Nature* that at the last meeting of the British Science Guild, held in the rooms of the Royal Geographical Society, communications were received from the Canadian and New South Wales sections of the Guild. In the case of the Canadian section, Lord Grey is resigning the presidentship on account of his departure, and it is hoped that Lord Strathcona will act as president in his place. No fewer than 120 members have joined the New South Wales section of the Guild, and important literature has been forwarded in connection with technical education and the report on open-air spaces for school children in Sidney. The agricultural memorial to the prime minister having received numerous signatures from representative agricultural societies and others was ordered to be submitted to the prime minister. The report of the committee on the synchronization of clocks was finally approved, and it was decided to approach the Local Government Board by deputation and to ask the president to promote legislation on the subject.

THE *Experiment Station Record* states that a secondary school of agriculture for Vermont boys is to be opened next September in connection with Lyndon Institute, Lyndon, Vt. A two-year course in scientific and practical agriculture will be given, designed to prepare young men for successful farming under Vermont conditions. The course will extend over 9 months of each year and will be open to resi-

dents of the state eligible for admission to any approved high school. A unique feature of the school is the provision of two methods by which students may pay their expenses, a cash payment system and a work payment system. Boys who choose the latter method will be required to stay at the school throughout the year and will be allowed \$25 a month with board and lodging during vacation time and 15 cents an hour for work during the school year. The establishment of the school has been made possible through a gift of Theodore N. Vail, President of the American Telegraph and Telephone Company. The director of the school will be Arthur W. Merrill, a graduate of the New Hampshire College, and for several years teacher of agriculture at the Baron de Hirsch School.

UNIVERSITY AND EDUCATIONAL NEWS

DR. HARRY BURNS HUTCHINS, in accepting the presidency of the University of Michigan, states that he does so on the express condition that he be relieved of the duties of the office at the expiration of five years. Dr. Hutchins graduated from the University of Michigan in 1871, and has been dean of the department of law since 1895.

DR. FRANK LEROND McVEY will be installed as president of the University of North Dakota on September 29. On that and on the preceding day there will be various academic exercises including the dedication of two new buildings. Addresses are to be given by Dr. Edmund J. James, president of the University of Illinois; Dr. George E. McLean, president of the University of Iowa; the Rev. S. P. Matheson, chancellor of the University of Manitoba, and Dr. A. Ross Hill, president of the University of Missouri.

E. DWIGHT SANDERSON, recently director and entomologist of the New Hampshire Agricultural Experiment Station, has accepted the position of dean of the College of Agriculture, West Virginia University, and will be at Morgantown, W. Va., after September 1.

THE following new appointments for the Kansas State Agricultural College are an-